

Unit 2

Day 1

Roots and Radicals

Pre-1.7 Worksheet instruction

1)

$$\sqrt{72}$$

$$\sqrt{36 \cdot 2}$$

$$6\sqrt{2}$$

$$\sqrt{36} \cdot \sqrt{2}$$

2)

$$\sqrt{104}$$

$$\sqrt{4 \cdot 26}$$

$$2\sqrt{26}$$



3)

$$\sqrt{-128}$$

NR

4)

index

$$\sqrt[3]{64}$$

$$\sqrt[3]{2^6}$$

$$2^2 = 4$$

5)

$$\sqrt[3]{x^6}$$

$$x^2$$

6)

$$\frac{5}{\sqrt{7}} \cdot \frac{\sqrt{7}}{\sqrt{7}} = \frac{5\sqrt{7}}{\sqrt{(7)^2}} = \frac{5\sqrt{7}}{7}$$



7)

$$\frac{7}{\sqrt[5]{125}} \cdot \frac{\sqrt[5]{5^2}}{\sqrt[5]{5^2}} = \frac{7\sqrt[5]{5^2}}{\sqrt[5]{(5)^5}} = \frac{7\sqrt[5]{25}}{5}$$

$$5^3 \cdot 5^2 = 5^5$$

Do know and finish for homework

3 Worksheets (2 simplifying, and 1 Rationalizing)